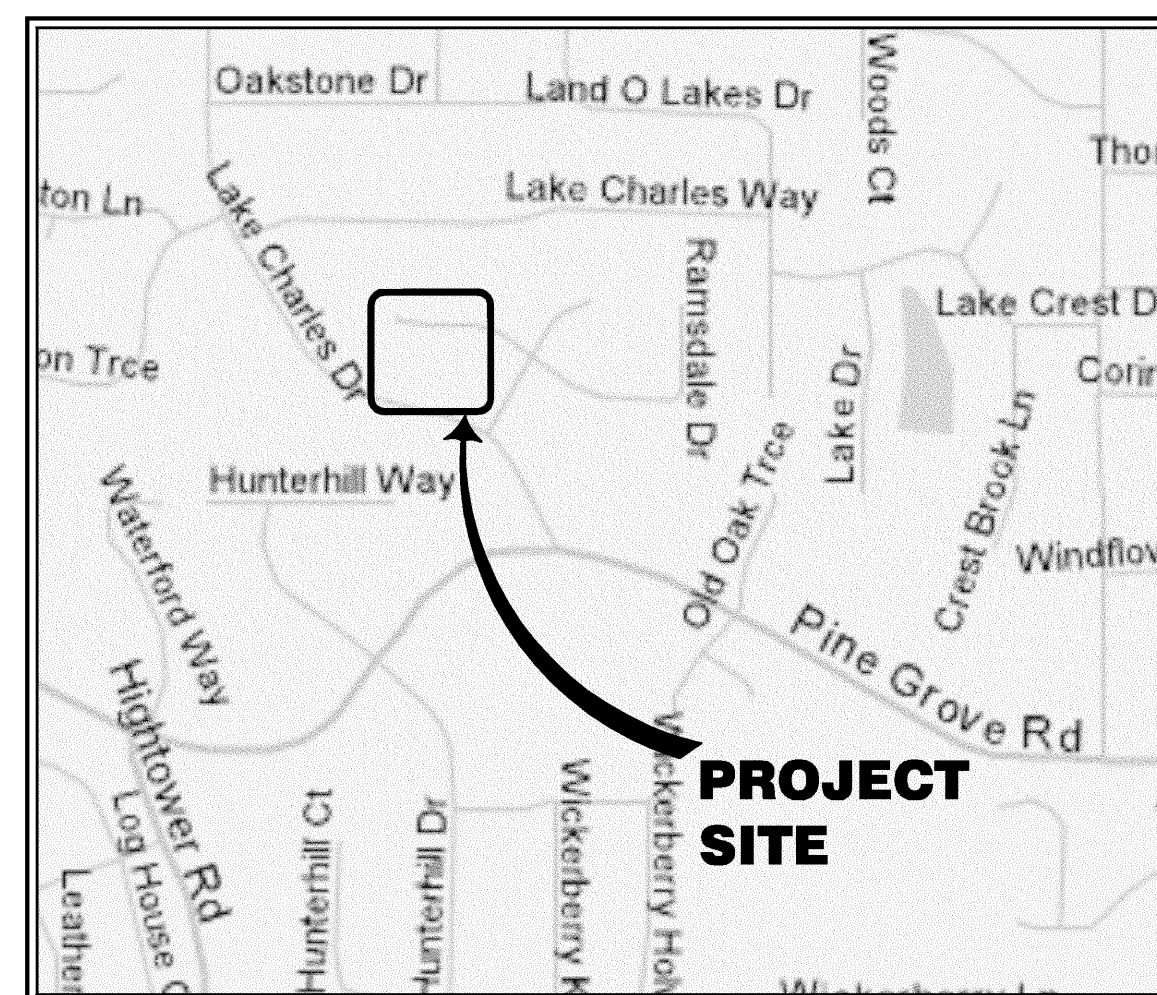


FULTON COUNTY DEPARTMENT OF PUBLIC WORKS NORTH FULTON PUMP STATION UPGRADES LAKE CHARLES PUMP STATION

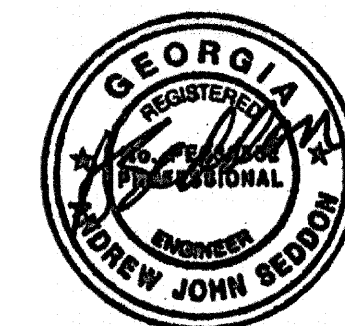
**LAND LOT 303, DISTRICT 1, SECTION 2
FULTON COUNTY, GEORGIA**

**CONSTRUCTION DOCUMENTS
SEPTEMBER 15, 2006**



VICINITY MAP

SCALE: 1" = 900'



9-15-06

**PRIME
ENGINEERING
INCORPORATED®**
PROJECT NUMBER 06-2015-005

R:\2015--005 North Fulton Pump Station Upgrades\dwg\Lake Charles\G001--2015--005--LC.dwg, Thu, 09/21/06 10:07 AM

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A	PROJECT DIRECTORY					FULTON COUNTY NOTES					GENERAL NOTES				<div>PRIME ENGINEERING INCORPORATED®</div> <div>1888 EMERY STREET, N.W., SUITE 300 ATLANTA, GEORGIA 30318</div> <div>4 0 4 - 4 2 5 - 7 1 0 0</div>																														
B	<div><div>1. PROJECT:</div><div>NORTH FULTON PUMP STATION UPGRADES LAKE CHARLES PUMP STATION LAND LOT 303, 1ST DISTRICT 2ND SECTION FULTON COUNTY, GEORGIA</div></div> <div><div>2. SITE ADDRESS:</div><div>RAMSDALE DRIVE ROSWELL, GEORGIA 30075</div></div> <div><div>3. OWNER:</div><div>FULTON COUNTY DEPARTMENT OF PUBLIC WORKS WATER SERVICES DEVISION CONTACT: MR. SIMEON SOLOMERO, JR 141 PRYOR STREET, S.W., SUITE 6001 ATLANTA, GA 30303 PHONE: 404-730-7418</div></div> <div><div>4. CIVIL ENGINEER:</div><div>PRIME ENGINEERING, INC. CONTACT: MR. ANDY SEDDON, P.E. 1888 EMERY STREET NW, SUITE 300 ATLANTA, GEORGIA 30318 PHONE: 404-425-7100</div></div> <div><div>5. MECHANICAL ENGINEER:</div><div>PRIME ENGINEERING, INC. CONTACT: MR. BRYAN WEBB, P.E. PHONE: 404-425-7100</div></div> <div><div>6. ELECTRICAL ENGINEER:</div><div>RAY GROUP CONSULTING ENGINEERS, INC. CONTACT: MR. ASHIM K. RAY, P.E. 1827 POWERS FERRY ROAD BUILDING 21, SUITE 200 ATLANTA, GEORGIA 30339 PHONE: 770-953-1443</div></div> <div><div>7. SURVEYOR:</div><div>PRIME SURVEYING, INC. CONTACT: MR. JOHN BLOUNT, R.L.S. PHONE: 404-425-7100</div></div>					<div><div>1. ALL WASTEWATER PIPE CONSTRUCTION MUST CONFORM TO FULTON COUNTY'S STANDARDS AND SPECIFICATIONS.</div><div>2. ALL WASTEWATER EASEMENTS MUST BE DRESSED AND GRASSED TO CONTROL EROSION IN ACCORDANCE WITH EASEMENT PLATS PRIOR TO ACCEPTANCE. TREES SHALL NOT BE PLANTED IN THE PERMANENT EASEMENT AREA.</div><div>3. NEOPRENE COUPLINGS WITH STAINLESS STEEL BANDS AND SHEAR RINGS ARE REQUIRED FOR JOINING DIFFERENT TYPES OF SANITARY SEWER PIPES.</div><div>4. LOW PRESSURE AIR TESTING REQUIRED FOR ALL WASTEWATER PIPE SYSTEMS. THIS TEST MUST MEET ALL REQUIREMENTS AS OUTLINED IN ASTM C-828-80 OR CURRENT REVISION.</div><div>5. COMPACTION OF THE BACK FILL OF ALL TRENCHES SHALL BE COMPACTED TO THE DENSITY OF 95% OF THE THEORETICAL MAXIMUM DENSITY (STANDARD PROCTOR). BACKFILL MATERIAL SHALL BE FREE FROM ROOTS, STUMPS, OR OTHER FOREIGN DEBRIS, AND SHALL BE PLACED AT OR NEAR OPTIMUM MOISTURE. CORRECTION OF ANY TRENCH SETTLEMENT WITHIN A YEAR FROM THE DATE OF APPROVAL WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.</div><div>6. CONTRACTOR TO FIELD VERIFY LOCATION AND INVERT ELEVATIONS OF WASTEWATER PIPE FOR CONNECTION TO EXISTING WASTEWATER SYSTEMS.</div><div>7. EIGHT (8") INCH OR LARGER PIPE LINES SHOULD BE TV INSPECTED. A VHS TAPE AND WRITTEN INSPECTION LOG, CERTIFIED BY A GEORGIA REGISTERED ENGINEER, SHALL BE PROVIDED TO THE PROJECT ENGINEERING SECTION OF PUBLIC WORKS AT THE TIME OF FINAL ACCEPTANCE.</div></div>					<div><div>1. EXISTING DATA: THE EXISTING INFORMATION PROVIDED IN THESE DRAWINGS WAS OBTAINED BY PRIME ENGINEERING, INC. DURING SITE VISITS ON MAY 16, 2006 AND JULY 11, 2006.</div><div>2. CONTRACTOR IS RESPONSIBLE DURING BID PHASE FOR VERIFYING ALL EXISTING CONDITIONS, DIMENSIONS, ACCESS LIMITATIONS, AND SITE RESTRICTIONS THAT AFFECT THIS SCOPE OF WORK. CONTRACTOR IS RESPONSIBLE FOR PROVIDING LABOR, MATERIAL, AND EQUIPMENT PROVISIONS AS REQUIRED AND (IN BASE BID AND ANY ALTERNATIVES) TO PERFORM SCOPE OF WORK BASED ON THESE EXISTING SITE CONDITIONS.</div><div>3. ALL CONNECTIONS TO EXISTING SYSTEMS AND WORK ON ACTIVE SYSTEMS MUST BE SCHEDULED A MINIMUM OF 24 HOURS IN ADVANCE WITH FULTON COUNTY.</div><div>4. NO SYSTEMS SHALL BE RETURNED TO ACTIVE SERVICE WITHOUT WRITTEN APPROVAL FROM FULTON COUNTY.</div><div>5. UNLESS OTHERWISE INDICATED IN THE CONSTRUCTION DOCUMENTS, NO PIPE SHALL BE CUT THAT SHALL REMAIN IN SERVICE. REMOVAL OF OLD FITTINGS WILL BE ACCOMPLISHED FROM JOINT TO JOINT WITH GASKET REPLACEMENT AND NUTS AND BOLTS AT THESE LOCATIONS.</div><div>6. CONTRACTOR SHALL PROVIDE DETAILED SHOP DRAWINGS FOR NATURAL GAS GENERATOR AND COMBUSTIBLE GAS DETECTOR.</div><div>7. REMOVE ALL ABANDONED MECHANICAL AND ELECTRICAL EQUIPMENT PROPERLY. PROPERLY DISPOSE OF ALL REMOVED EQUIPMENT AND/OR DEBRIS.</div><div>8. BYPASS PUMPING, AS REQUIRED DURING CONSTRUCTION, SHALL BE COORDINATED WITH THE OWNER. AT ALL TIMES THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE PUMP STATION WET WELL LEVEL BELOW THE ALARM SET POINT.</div><div>9. RATED CAPACITY OF EXISTING PUMP STATION IS 0.1 MGD.</div></div>																																		
C	DRAWING INDEX					DETAIL ID					PROJECT: NORTH FULTON PUMP STATION UPGRADES - LAKE CHARLES PUMP STATION PREPARED FOR: FULTON COUNTY DEPARTMENT OF PUBLIC WORKS																																		
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C-201

SITE PLAN

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C-401

CIVIL DETAILS

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C-402

CIVIL DETAILS

0

09/15/06

E-001

ELECTRICAL & INSTRUMENTATION LEGEND

0

09/15/06

E-201

ELECTRICAL & INSTRUMENTATION PLAN

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E-401

ELECTRICAL & INSTRUMENTATION DETAILS

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E-402

ELECTRICAL & INSTRUMENTATION DETAILS

SECTION OR DETAIL NUMBER

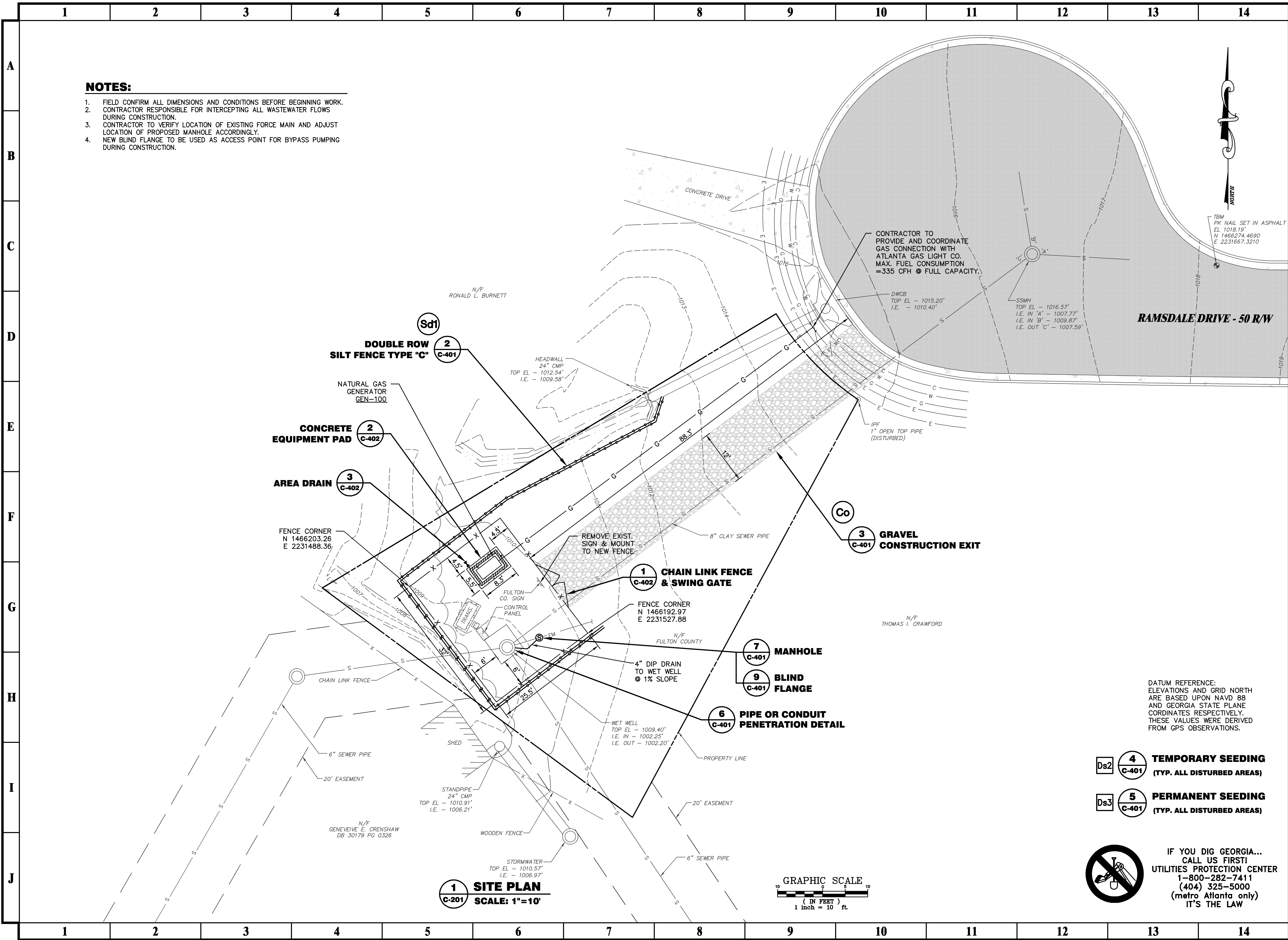
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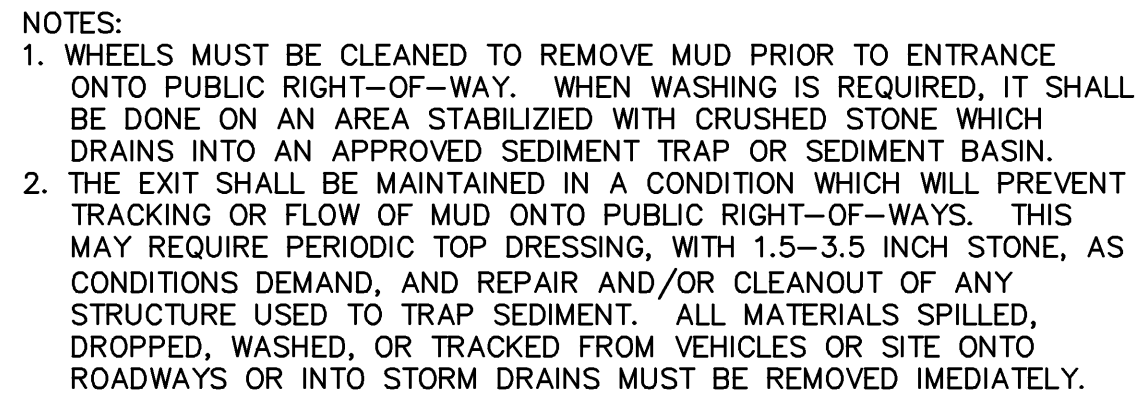
TITLE

SCALE: X"=X'

SHEET NUMBER

[illegible]

1 EROSION CONTROL LEGEND
C-401 NOT TO SCALE



CORE DRILL DIAMETER OPENING IN WALL EQUALS PIPE OR CONDUIT SIZE PLUS 8". SAW CUT FLOOR FOR INSTALLATION IN EXISTING CONSTRUCTION. SLEEVE, CUT EXISTING REBAR AS REQUIRED. SEE NOTE 1

3/8" TYP

FILL WITH NON-SHRINK EPOXY GROUT

LEAK PLATE (3/8" THK. STEEL)

SCH 40 PIPE SLEEVE (MIN SIZE: CONDUIT O.D. PLUS 1")

LINK SEAL TO BE INSTALLED AT INNER WALL SIDE OF PIPE SLEEVE. FOR FLOOR SLEEVES, DO NOT USE LINK SEALS, BRING FLUSH TO TOP OF SLEEVE, NOTE 2

PIPE

FOR FLOOR SLEEVE INSTALLATION, PROVIDE SLEEVE TO EXTEND 3" (MIN) ABOVE FLOOR SLAB

FILL BETWEEN WALL SLEEVE AND PIPE WITH NON-SHRINK EPOXY GROUT

CONCRETE OR CMU CONSTRUCTION

- NOTES:**
1. PIPE SLEEVES TO BE CAST IN PLACE WITH NEW WALLS OR SLABS AS APPLICABLE. CORE DRILL FOR EXISTING CONSTRUCTION ONLY.

STEEL POST

FILTER FABRIC (WOVEN WIRE FENCE BACKING)

2.5' MIN.

28"

1.5' MIN.

2"

FLOW

HORIZONTAL GRADE (%)	HORIZONTAL SPACING (FT)
< 2	100
2 to 5	75
5 to 10	50
10 to 20	25
> 20*	15

*IN AREAS WHERE THE SLOPE IS GREATER THAN 20%, A FLAT AREA LENGTH OF 10 FEET BETWEEN THE TOE OF THE SLOPE THE FENCE SHOULD BE PROVIDED.

SIDE VIEW

NOTES:
USE 36" D.O.T. APPROVED FABRIC
USE STEEL POSTS ONLY

4' MIN.

28"

4' MAX. O.C.

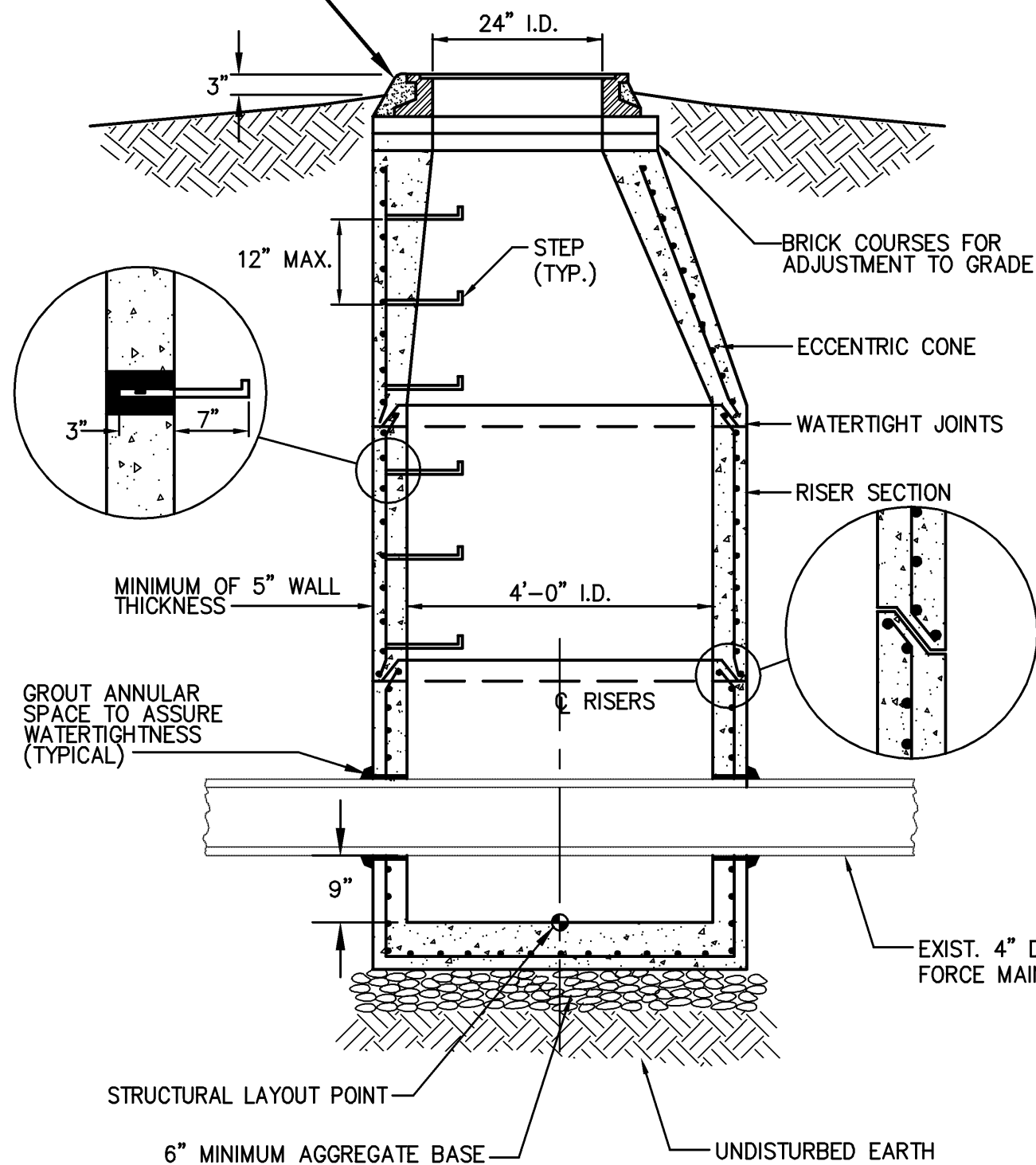
FILTER FABRIC (WOVEN WIRE FENCE BACKING)

TRENCH

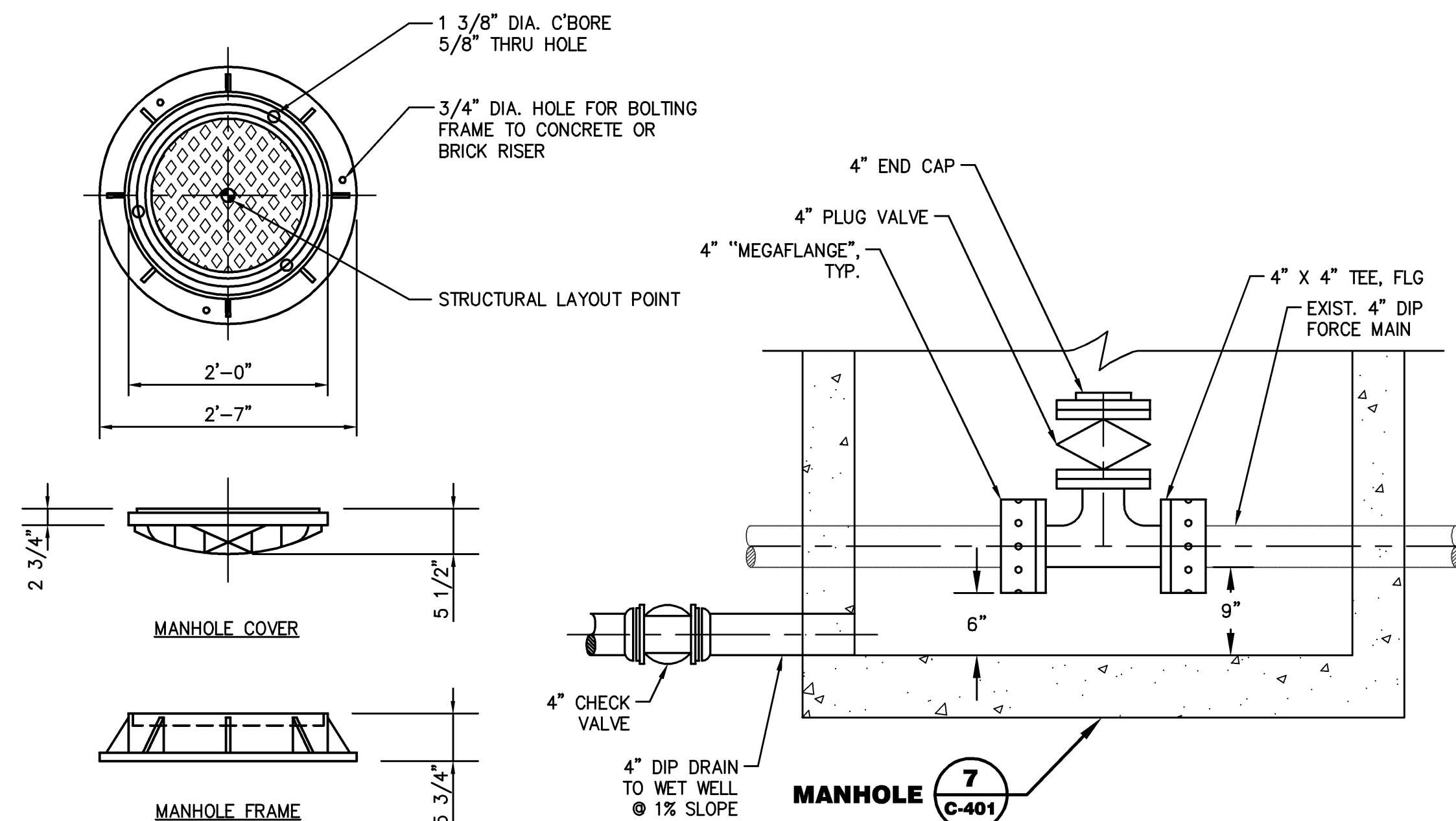
6"

FRONT VIEW

MANHOLE FRAME AND COVER



8 MANHOLE FRAME AND COVER
C-401 NOT TO SCALE



TEMPORARY SEEDING						Ds2
EROSION CONTROL SEEDING NOTES						
CONTRACTOR TO PROTECT ALL DISTURBED AREAS BY TEMPORARY RESEEDING UNTIL PERMANENT GROUND COVER IS ESTABLISHED. (MAXIMUM OF 2 WEEKS AFTER DISTURBANCE).						
AREA	DATES	SPECIES	SEEDING RATES	FERTILIZER	LIME	MAINTENANCE
FLAT TO ROLLING TERRAIN WITH SLOPES LESS THAN 3:1	8/15-4/15	ANNUAL RYE GRASS	40#/AC 0.9#/1000 SF	12#/AC (10-10-10)	45#	7# (10-10-10)
	4/15-8/15	PEARL MILLET	50#/AC 1.1#/1000 SF	35#/AC (6-12-12)	45#	10# (10-10-10)
EMBANKMENTS WITH SLOPES 3:1 OR STEEPER	3/1-7/31	WEeping LOVE GRASS	4#/AC 0.1#/1000 SF	12#/AC (10-10-10)	45#	7# (10-10-10)
	3/1-2/29	TALL FESCUE	70#/AC 1.6#/1000 SF	35#/AC (6-12-12)	45#	10# (10-10-10)

NOTE: ALL GRASSING SHALL MATCH SPECIES OF EXISTING LOT/PARCEL

PERMANENT SEEDING						Ds3
EROSION CONTROL SEEDING NOTES						
AREA	DATES	SPECIES	SEEDING RATES	FERTILIZER	LIME	MAINTENANCE
FLAT TO ROLLING TERRAIN WITH SLOPES LESS THAN 3:1	2/15-8/14	COMMON BERMUDA (HULLED SEED)	10#/AC 0.2#/1000 SF	35#/AC (6-12-12)	45#	10# (10-10-10)
	2/15-8/14	COMMON BERMUDA (UNHULLED SEED)	10#/AC 0.2#/1000 SF	35#/AC (6-12-12)	45#	10# (10-10-10)
	8/15-2/14	COMMON BERMUDA (UNHULLED SEED)	10#/AC 0.2#/1000 SF	12#/AC (10-10-10)	45#	10# (10-10-10)
	8/15-2/4	TALL FESCUE	50#/AC 1.1#/1000 SF	35#/AC (6-12-12)	45#	10# (10-10-10)
EMBANKMENTS WITH SLOPES 3:1 OR STEEPER	3/1-7/31	WEeping LOVE GRASS	4#/AC 0.1#/1000 SF	35#/AC 6-12-12)	45#	10# (10-10-10)
	3/1-7/31	LESPEDEZA SERICEA (SCARIFIED)	60#/AC 1.4#/1000 SF	35#/AC (6-12-12)	45#	10# (10-10-10)
	8/1-2/29	LESPEDEZA SERICEA (UNSCARIFIED)	75#/AC 1.7#/1000 SF	35#/AC (6-12-12)	45#	01# (10-10-10)
	8/1-2/29	TALL FESCUE	50#/AC 1.1#/1000 SF	35#/AC (6-12-12)	45#	10# (10-10-10)

NOTE: ALL GRASSING SHALL MATCH SPECIES OF EXISTING LOT/PARCEL

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ENGINEERING
INCORPORATED®**

1888 EMERY STREET, N.W., SUITE 300
ATLANTA, GEORGIA 30318
4 0 4 - 4 2 5 - 7 1 0 0

PROJECT:
**NORTH FULTON PUMP
STATION UPGRADES -
LAKE CHARLES
PUMP STATION**

PREPARED FOR:
**FULTON COUNTY
DEPARTMENT OF
PUBLIC WORKS**

[illegible]

DATE: 9-15-06

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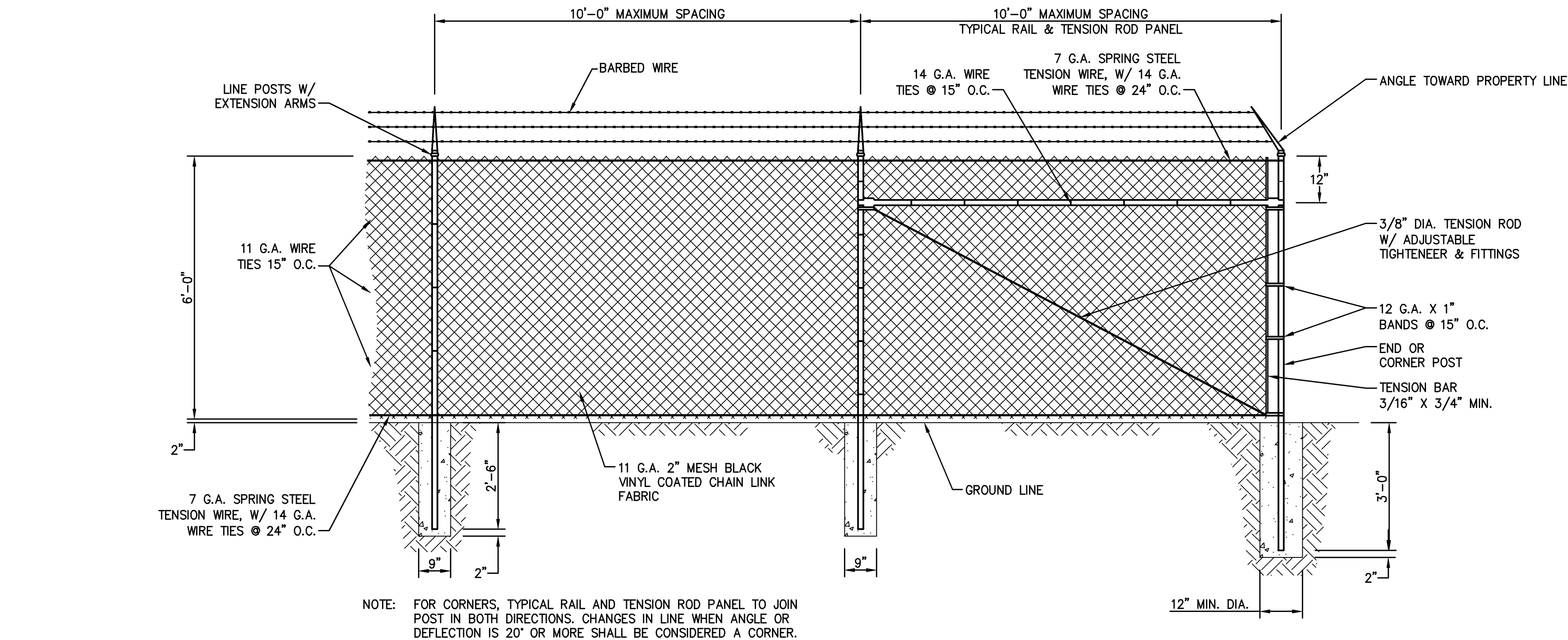
CIVIL DETAILS

07ITBNFPUNPSK-DB

DRAWING DATE	DRAWN BY
09/15/06	ESD
DRAWING SCALE	DESIGNED BY
NOT TO SCALE	AJS
PROJECT NUMBER	CHECKED BY
06-2015-005	RBW

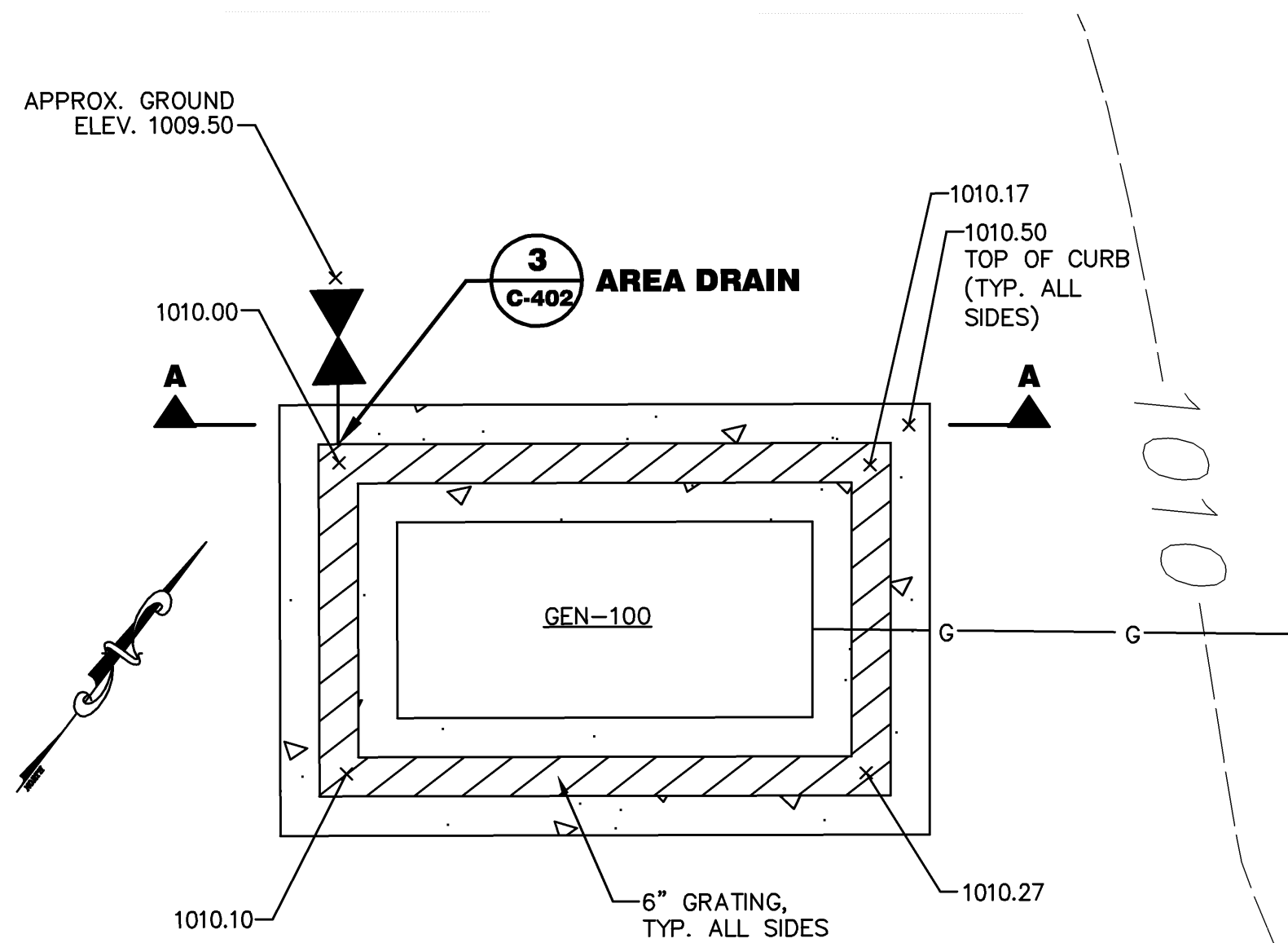
C-401

NOT ISSUED FOR CONSTRUCTION



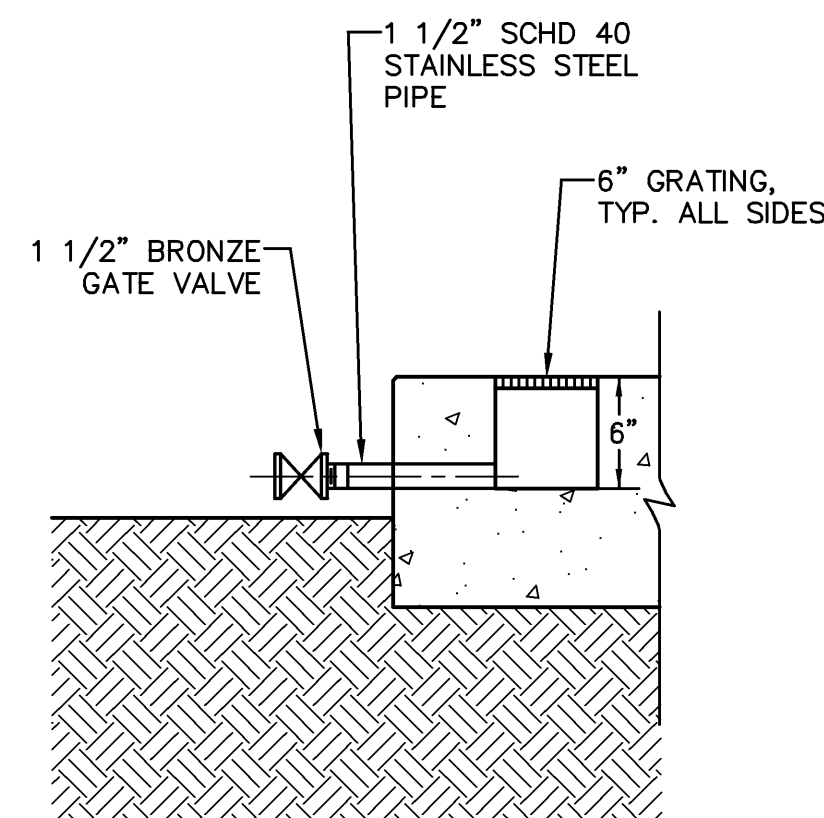
INTERMEDIATE SECTION

NOTE: FOR CORNERS, TYPICAL RAIL AND TENSION ROD PANEL TO JOIN POST IN BOTH DIRECTIONS. CHANGES IN LINE WHEN ANGLE OR DEFLECTION IS 20° OR MORE SHALL BE CONSIDERED A CORNER.



PLAN

2 CONCRETE EQUIPMENT PAD
C-402 NOT TO SCALE




3 AREA DRAIN
C-402 NOT TO SCALE

DRAWING DATE 09/15/06		DRAWN BY ESD	<div>DRAWING TITLE</div> <div>CIVIL DETAILS</div> <div>07TTFNFPUMPSEK-DB</div>
DRAWING SCALE NOT TO SCALE	DESIGNED BY AJS		
PROJECT NUMBER 06-2015-005	CHECKED BY RBW		
DRAWING NUMBER C-402			
NOT ISSUED FOR CONSTRUCTION			

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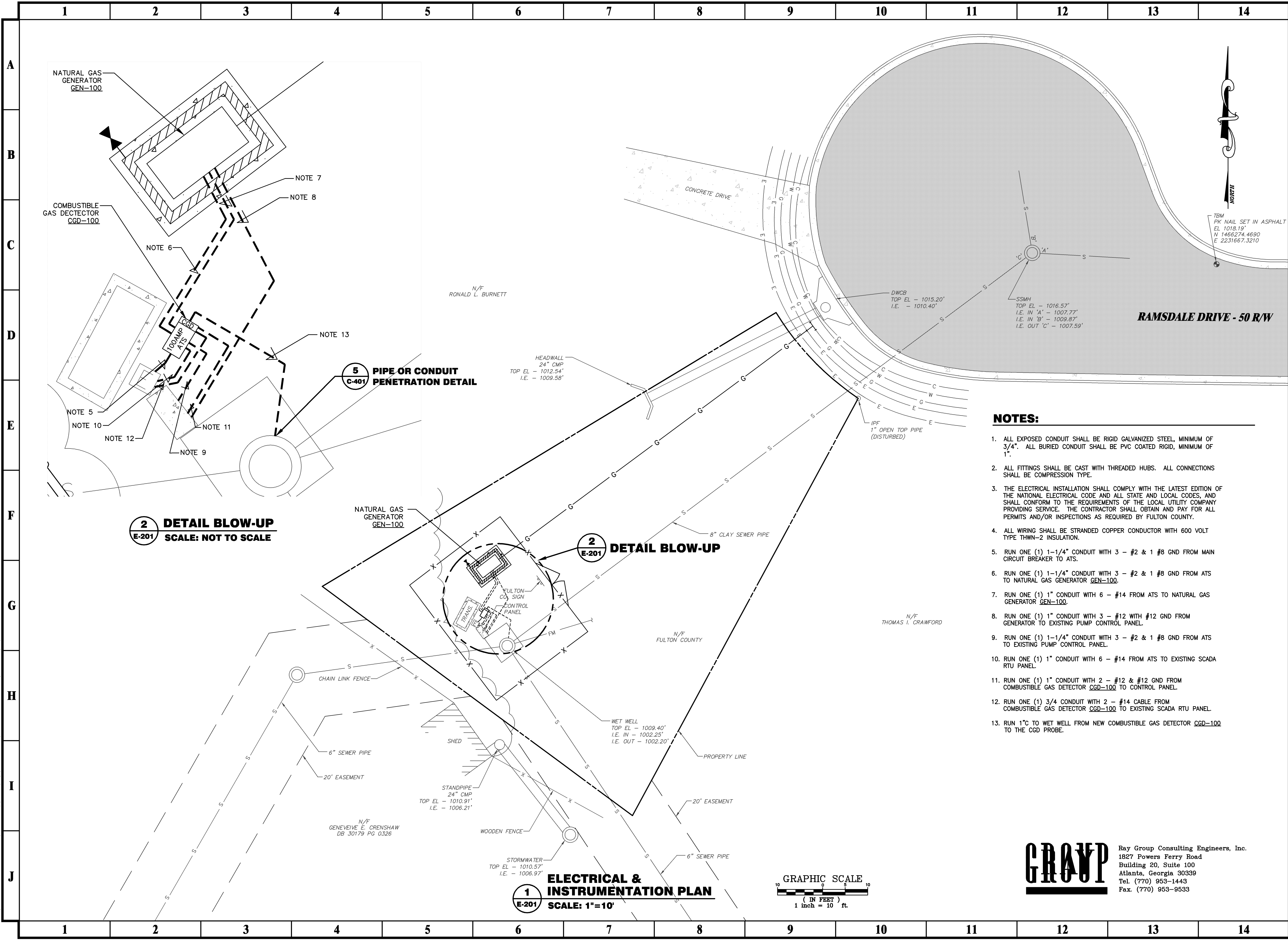
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DRAWING SCALE NOT TO SCALE	DESIGNED BY AJS		
PROJECT NUMBER 06-2015-005	CHECKED BY RBW		
DRAWING NUMBER C-402			
NOT ISSUED FOR CONSTRUCTION			


SEAL	REVISIONS	PROJECT:
	NO. DATE DESCRIPTION	NORTH FULTON PUMP STATION UPGRADES - LAKE CHARLES PUMP STATION
	0 9/15/2006 CONSTRUCTION DOCUMENTS	
DATE: 9-15-06		PREPARED FOR:
		FULTON COUNTY DEPARTMENT OF PUBLIC WORKS

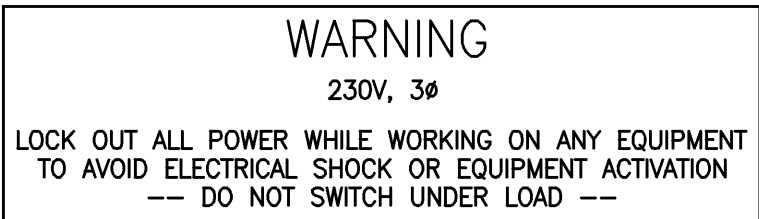
PRIME ENGINEERING		1888 EMERY STREET, N.W., SUITE 300 ATLANTA, GEORGIA 30318 404-425-7100
INCORPORATED®		

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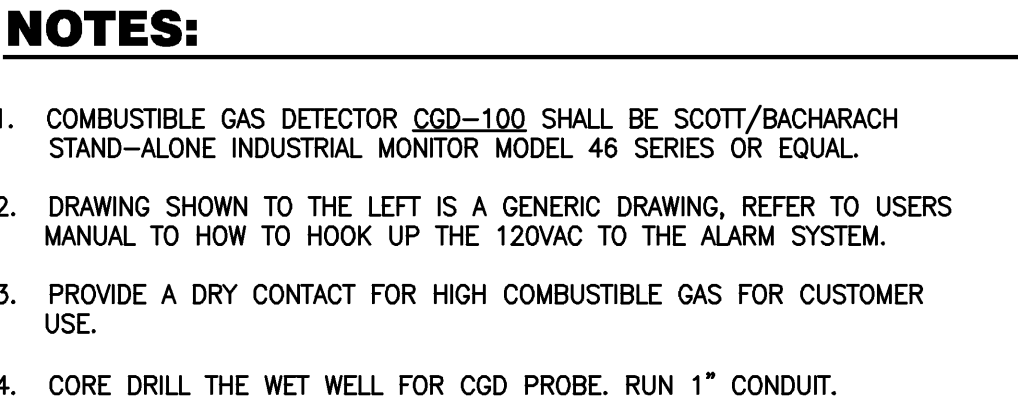


PRIME ENGINEERING INCORPORATED® 1888 EVERY STREET, N.W., SUITE 300 ATLANTA, GEORGIA 30318 404-423-7100			
PROJECT: NORTH FULTON PUMP STATION UPGRADES - LAKE CHARLES PUMP STATION PREPARED FOR: FULTON COUNTY DEPARTMENT OF PUBLIC WORKS			
REVISIONS			
NO.	DATE	DESCRIPTION	CONSTRUCTION DOCUMENTS
0	9/15/2006		
SEAL			
 DATE: 09/15/06			
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DRAWING TITLE ELECTRICAL & INSTRUMENTATION PLAN 07TTFNFPUMPSK-DB			
DRAWING DATE 09/15/06	DRAWN BY CDR	DESIGNED BY CDR	CHECKED BY AKR
DRAWING SCALE AS SHOWN	PROJECT NUMBER 06-2015-005	DRAWING NUMBER E-201	NOT ISSUED FOR CONSTRUCTION



Ray Group Consulting Engineers, Inc.
1827 Powers Ferry Road
Building 20, Suite 100
Atlanta, Georgia 30339
Tel. (770) 953-1443
Fax. (770) 953-9533

NOT ISSUED FOR CONSTRUCTION



1 GENERIC CGD SCHEMATIC

Ray Group Consulting Engineers, Inc.
1827 Powers Ferry Road
Building 20, Suite 100
Atlanta, Georgia 30339
Tel. (770) 953-1443
Fax. (770) 953-9533

DRAWING TITLE

ELECTRICAL & INSTRUMENTATION DETAILS

07ITBNFPUMPSK-DB

NOT ISSUED FOR CONSTRUCTION

DATE: 09/15/06

DATE: 09/15/06

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PROJECT:
**NORTH FULTON PUMP
STATION UPGRADES -
LAKE CHARLES
PUMP STATION**

PREPARED FOR:
**FULTON COUNTY
DEPARTMENT OF
PUBLIC WORKS**

**PRIME
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ATLANTA, GEORGIA 30318

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